

SEVIER LAKE BASIN

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10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW^{1/4}SW^{1/4}NW^{1/4} sec. 28, T. 36 S., R. 5 W., Garfield County, Hydrologic Unit 16030001, on right bank 15 ft upstream of county road bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi².

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Crest-stage gage since November 9, 1995. Elevation of gage is 6,870 ft above NGVD of 1929, from river-profile map. Prior to August 23, 1911 at sites about 2 mi upstream. August 23, 1914 to August 22, 1978 at various sites within 300 feet of current site, different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some diversions for irrigation upstream of station. No regulation since Hatchtown Dam failed in 1914.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft³/s, May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft³/s, for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural daily discharge, 21 ft³/s, Sep 8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	May 28	0445	*315	*1.88					

Minimum daily discharge, 34 ft³/s, Sep 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	38	39	e37	37	38	38	50	165	45	43	39
2	41	38	38	e37	37	37	40	51	151	45	42	39
3	41	38	37	37	36	37	39	51	138	43	41	39
4	38	38	37	37	36	38	39	57	124	42	41	40
5	38	38	37	37	36	38	38	56	110	41	41	41
6	38	38	37	37	37	38	38	54	98	39	40	40
7	38	37	38	37	e36	39	38	54	90	38	37	39
8	39	38	37	37	e36	40	37	56	85	38	39	39
9	39	41	e35	37	36	41	37	55	81	38	39	39
10	38	40	37	37	36	43	38	54	76	38	40	39
11	38	39	37	38	36	45	37	51	73	38	41	38
12	38	38	37	37	37	44	38	49	69	38	39	37
13	38	39	37	37	44	41	39	52	66	37	39	37
14	38	38	37	37	49	40	40	63	63	38	38	37
15	38	38	37	37	46	40	41	76	60	39	44	37
16	38	38	37	36	40	42	41	86	57	40	43	37
17	37	39	39	36	40	44	38	134	56	40	41	36
18	37	38	37	37	40	41	39	160	55	40	40	38
19	36	38	e35	37	39	40	39	198	52	40	41	39
20	37	38	e35	37	39	40	38	216	50	40	41	38
21	36	39	e36	37	39	39	38	226	49	40	41	39
22	37	38	e36	37	38	38	40	243	49	40	43	39
23	37	38	e37	37	38	38	40	246	49	42	47	40
24	37	38	e37	37	38	39	39	231	48	41	43	39
25	38	38	e35	37	40	38	40	250	48	40	41	37
26	38	e36	e36	37	40	38	41	254	47	41	42	37
27	40	e35	e37	37	39	38	42	249	46	41	41	38
28	39	e35	e37	38	37	38	43	249	47	43	39	36
29	39	37	e37	37	---	37	47	222	46	42	38	35
30	38	38	e37	37	---	37	50	206	46	45	39	34
31	38	---	e37	37	---	37	49	188	---	46	38	---
TOTAL	1,178	1,139	1,142	1,147	1,082	1,223	1,192	4,187	2,194	1,258	1,262	1,142
MEAN	38.0	38.0	36.8	37.0	38.6	39.5	39.7	135	73.1	40.6	40.7	38.1
MAX	41	41	39	38	49	45	50	254	165	46	47	41
MIN	36	35	35	36	36	37	37	49	46	37	37	34
AC-FT	2,340	2,260	2,270	2,280	2,150	2,430	2,360	8,300	4,350	2,500	2,500	2,270

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2003, BY WATER YEAR (WY)

MEAN	75.6	73.6	67.6	62.1	65.3	74.9	126	332	258	118	88.9	78.4
MAX	246	149	150	128	130	159	465	1,012	1,071	430	228	167
(WY)	(1917)	(1917)	(1922)	(1923)	(1922)	(1916)	(1916)	(1922)	(1983)	(1983)	(1983)	(1922)
MIN	36.8	36.9	36.2	37.0	36.6	38.5	39.7	40.0	33.3	32.5	30.4	28.3
(WY)	(1978)	(1978)	(1957)	(2003)	(1978)	(1957)	(2003)	(2002)	(2002)	(2002)	(1977)	(1977)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1915 - 2003
ANNUAL TOTAL	14,384	18,146	
ANNUAL MEAN	39.4	49.7	
HIGHEST ANNUAL MEAN			119
LOWEST ANNUAL MEAN			313
HIGHEST DAILY MEAN	56	Apr 16	42.6
LOWEST DAILY MEAN	29	Aug 15	0.00
ANNUAL SEVEN-DAY MINIMUM	30	Aug 12	23
ANNUAL RUNOFF (AC-FT)	28,530	35,990	86,050
10 PERCENT EXCEEDS	49	56	227
50 PERCENT EXCEEDS	38	39	74
90 PERCENT EXCEEDS	32	37	45

e Estimated

